

Claims

What is claimed is:

1. A method, comprising:

a) receiving, at a node, notification of an address change of said node, said node within a PNNI ATM network, said node a destination endpoint for an SPVC that flows within said PNNI ATM network to said node; and

b) issuing from said node PTSE information that has SIG information, said SIG information describing said address change.

2. The method of claim 1 wherein said PTSE information is embedded within a PTSP packet.

3. The method of claim 1 wherein said PTSE information is issued as part of a scheduled broadcast of status information of said node.

4. The method of claim 1 wherein said PTSE information is issued in response to said notification, said notification regarded as an event within said PNNI ATM network worthy of reporting to other nodes within said PNNI ATM network.

5. The method of claim 1 further comprising issuing said PTSE information from said PNNI ATM network, said PNNI ATM network being a peer network within a larger PNNI ATM network.

6. The method of claim 1 wherein said PTSE information has a limited lifetime within said PNNI ATM network.

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7. The method of claim 1 wherein said notification is directed from a network management control station.

8. The method of claim 1 wherein said SIG information describing said address change further comprises a new address for said node and an old address of said node.

9. The method of claim 1 wherein said address is within an NSAP format.

10. A method, comprising:

a) receiving PTSE information that has SIG information at a node within a PNNI ATM network, said SIG information describing an address change of another node within said PNNI ATM network, said other node a destination endpoint for an SPVC that flows within said PNNI ATM network to said other node, said SIG information having an old address for said other node and a new address for said other node;

b) comparing said old address for said other node with an SPVC destination node address maintained by said node to establish an SPVC connection supported by said node; and

c) replacing said SPVC destination node address with said new address if said old address and said SPVC destination node address match.

11. The method of claim 10 wherein said PTSE information is embedded within a PTSP packet.

12. The method of claim 10 wherein said PTSE information is issued as part of a scheduled broadcast of status information of said other node.

13. The method of claim 10 wherein said PTSE information is issued in response to said other node being notified of said address change, said notification regarded as an event within said PNNI ATM network worthy of reporting to said node.

14. The method of claim 10 further comprising issuing said PTSE information from said PNNI ATM network, said PNNI ATM network being a peer network within a larger PNNI ATM network.

15. The method of claim 10 wherein said PTSE information has a limited lifetime within said PNNI ATM network.

16. The method of claim 10 wherein said address is within an NSAP format.

17. A machine readable medium having stored thereon sequences of instructions which, when executed by a digital processing system, cause said system to perform a method, comprising:

issuing from a node PTSE information that has SIG information, said SIG information describing an address change to said node, said node within a PNNI ATM network, said node a destination endpoint for an SPVC that flows within said PNNI ATM network to said node.

18. The machine readable medium of claim 17 wherein said PTSE information is embedded within a PTSP packet.

19. The machine readable medium of claim 17 wherein said PTSE information is issued as part of a scheduled broadcast of status information of said node.

20. The machine readable medium of claim 17 wherein said PTSE information is issued in response to a notification of said address change, said notification regarded as an event within said PNNI ATM network worthy of reporting to other nodes within said PNNI ATM network.

21. The machine readable medium of claim 17 where said method further comprises issuing said PTSE information from said PNNI ATM network, said PNNI ATM network being a peer network within a larger PNNI ATM network.

22. The machine readable medium of claim 17 wherein said PTSE information has a limited lifetime within said PNNI ATM network.

23. The method of claim 17 wherein said SIG information describing said address change further comprises a new address for said node and an old address of said node.

24. The method of claim 23 wherein said address is within an NSAP format.

25. A machine readable medium having stored thereon sequences of instructions which, when executed by a digital processing system, cause said system to perform a method, comprising:

a) comparing an old address for another other node with an SPVC destination node address maintained by a node to establish an SPVC connection supported by said node, said old address and said new address describing an address change to said other node, said old address and new address within SIG information, said SIG information within PTSE information received by said node, said other node a destination endpoint for an SPVC that flows within said PNNI ATM network to said other node ; and

b) replacing said SPVC destination node address with said new address if said old address and said SPVC destination node address match.

26. The machine readable medium of claim 25 wherein said PTSE information is embedded within a PTSP packet.

27. The machine readable medium of claim 25 wherein said method further comprises issuing said PTSE information from said PNNI ATM network, said PNNI ATM network being a peer network within a larger PNNI ATM network.

28. The machine readable medium of claim 25 wherein said address is within an NSAP format.